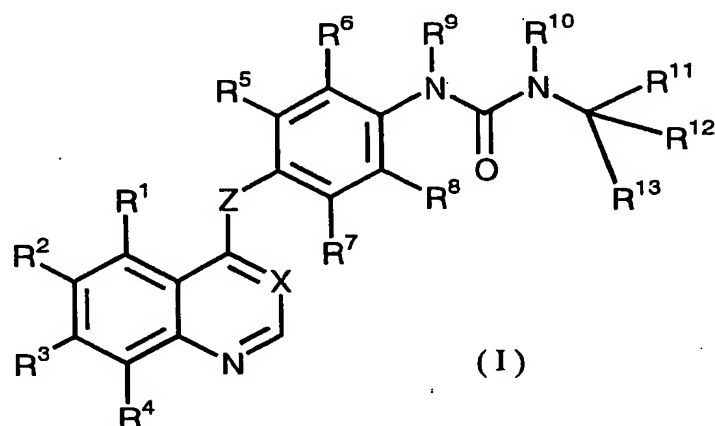


ABSTRACT

An objective of the present invention is to provide compounds which have inhibitory activity against autophosphorylation of macrophage colony-stimulating factor receptors. The compounds of the present invention are represented by formula (I) and salt and solvate thereof:



wherein X represents CH or N; Z represents O or S; R¹, R², and R³ represent H, optionally substituted alkoxy or the like; R⁴ represents H; R⁵, R⁶, R⁷, and R⁸ represent H, halogen, alkyl, alkoxy, trifluoromethyl or the like; R⁹ and R¹⁰ represent H, alkyl or the like; and any one of R¹¹ and R¹² represents H with the other representing alkyl and R¹³ represents an optionally substituted carbocyclic or heterocyclic ring or the like, or R¹¹ represents H and R¹² and R¹³ combine together to form a bicyclic carbocyclic ring.